

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-10. (Canceled)

11. (New) An injection nozzle for an internal combustion engine for use in a motor vehicle, the injection nozzle comprising

a nozzle body (2) equipped with at least one injection opening (3),

a nozzle needle (5) that is guided in a needle guide (6) of the nozzle body (2) and being able to control the injection of fuel through the at least one injection opening (3),

a control piston (18) drive-coupled to an actuator (19) and having a first control surface (21),

the nozzle needle (5) having a first compensator surface (16) or being drive-coupled to a compensator piston (32) having a first compensator surface (16),

the first compensator surface (16) being hydraulically coupled to the first control surface (21) via a first hydraulic path (22),

a second hydraulic path (29) is able to hydraulically couple the first control surface (21) to a supply line (9) that supplies highly pressurized fuel to the at least one injection opening (3),

the first hydraulic path (22) leading through a first control chamber (23) that contains the first control surface (21), a first compensator chamber (24) that contains the first compensator surface (16), and a connecting line (25) that connects the first control chamber (23) to the first compensator chamber (24), and

the control piston (18) having a second control surface (27) situated in a second control chamber (28) that communicates with the supply line (9).

12. **(New)** The injection nozzle according to claim 11, wherein the second hydraulic path (29) leads through the first control chamber (23) and a throttled control piston bypass (30), situated between the control piston (18) and a control piston guide (20) and hydraulically connecting the first control chamber (23) to the second control chamber (28).

13. **(New)** The injection nozzle according to claim 11, wherein in order to open the nozzle needle (5), the control piston (18) is actuated so as to produce a drop in the pressure acting on the first compensator surface (16).

14. **(New)** The injection nozzle according to claim 12, wherein in order to open the nozzle needle (5), the control piston (18) is actuated so as to produce a drop in the pressure acting on the first compensator surface (16).

15. (New) An injection nozzle for an internal combustion engine for use in a motor vehicle, the injection nozzle comprising

a nozzle body (2) equipped with at least one injection opening (3),

a nozzle needle (5) that is guided in a needle guide (6) of the nozzle body (2) and being able to control the injection of fuel through the at least one injection opening (3),

a control piston (18) drive-coupled to an actuator (19) and having a first control surface (21),

the nozzle needle (5) having a first compensator surface (16) or being drive-coupled to a compensator piston (32) having a first compensator surface (16),

the first compensator surface (16) being hydraulically coupled to the first control surface (21) via a first hydraulic path (22),

a second hydraulic path (29) is able to hydraulically couple the first control surface (21) to a supply line (9) that supplies highly pressurized fuel to the at least one injection opening (3),

the first hydraulic path (22) leading through a first control chamber (23) that contains the first control surface (21), a first compensator chamber (24) that contains the first compensator surface (16), and a connecting line (25) that connects the first control chamber (23) to the first compensator chamber (24),

the compensator piston (32) having a second compensator surface (34) situated in a second compensator chamber (35) that communicates with the supply line (9), and

the two compensator surfaces (16, 34) acting in opposite directions when subjected to pressure.

16. **(New)** The injection nozzle according to claim 15, wherein the first compensator surface (16) is oriented toward the injection opening (3) and consequently acts in the opening direction (15) and the second hydraulic path (29) has an inlet valve (37) that closes in the direction toward the supply line (9) and opens in the direction toward the first control chamber (23).

17. **(New)** The injection nozzle according to claim 15, wherein the first compensator surface (16) is oriented away from the injection opening (3) and consequently acts in the closing direction (17) when subjected to pressure, and the second hydraulic path (29) has an inlet valve (37) that prevents fuel from flowing out of the supply line (9) into the first control chamber (23) during an opening stroke (31) off the control piston (18).

18. **(New)** The injection nozzle according to claim 17, wherein, in order to open the nozzle needle (5), the control piston (18) is actuated so as to produce a drop in the pressure acting on the first compensator surface (16).

19. **(New)** An injection nozzle for an internal combustion engine for use in a motor vehicle, the injection nozzle comprising

a nozzle body (2) equipped with at least one injection opening (3),

a nozzle needle (5) that is guided in a needle guide (6) of the nozzle body (2) and is able to control the injection of fuel through the at least one injection opening (3),

a control piston (18) drive-coupled to an actuator (19) and having a first control

surface (21),

the nozzle needle (5) having a first compensator surface (16) or being drive-coupled to a compensator piston (32) having a first compensator surface (16),

the first compensator surface (16) being hydraulically coupled to the first control surface (21) via a first hydraulic path (22),

a second hydraulic path (29) is able to hydraulically couple the first control surface (21) to a supply line (9) that supplies highly pressurized fuel to the at least one injection opening (3),

the control piston (18) and the compensator piston (32) are guided coaxially one inside the other,

the first control surface (21) and the first compensator surface (16) are situated in a shared conversion chamber (43), and

a second compensator chamber (35) embodied in the control piston (18) and communicating with the supply line (9) through the control piston (18).

20. **(New)** An injection nozzle for an internal combustion engine for use in a motor vehicle, the injection nozzle comprising,

a nozzle body (2) equipped with at least one injection opening (3),

a nozzle needle (5) that is guided in a needle guide (6) of the nozzle body (2) and being able to control the injection of fuel through the at least one injection opening (3),

a control piston (18) drive-coupled to an actuator (19) and having a first control surface (21),

the nozzle needle (5) having a first compensator surface (16) or being drive-coupled to a compensator piston (32) having a first compensator surface (16),

the first compensator surface (16) being hydraulically coupled to the first control surface (21) via a first hydraulic path (22),

a second hydraulic path (29) is able to hydraulically couple the first control surface (21) to a supply line (9) that supplies highly pressurized fuel to the at least one injection opening (3),

the control piston (18) and the compensator piston (32) being guided coaxially one inside the other,

the first control surface (21) and the first compensator surface (16) being situated in a shared conversion chamber (43), and

the second hydraulic path (29) leading through a compensator piston bypass (47) situated between the compensator piston (32) and a compensator piston guide (33).

21. **(New)** The injection nozzle according to claim 11, further comprising

a push rod (40) drive-coupled the control piston (18) to the actuator (19),

the actuator (19) being embodied in the form of a hollow actuator through the center of which the push rod (40) is guided,

at an end of the actuator (19) oriented away from the control piston (18), the push rod (40) supporting a drive piston (39) that the actuator (19) is able to drive, and

the actuator (19) being embodied and positioned so that when it is triggered, it drives the drive piston (39) in an opening direction (15) of the nozzle needle (5).

22. **(New)** The injection nozzle according to claim 12, further comprising
a push rod (40) drive-coupled the control piston (18) to the actuator (19),
the actuator (19) being embodied in the form of a hollow actuator through the center
of which the push rod (40) is guided,
at an end of the actuator (19) oriented away from the control piston (18), the push rod
(40) supporting a drive piston (39) that the actuator (19) is able to drive, and
the actuator (19) being embodied and positioned so that when it is triggered, it drives
the drive piston (39) in an opening direction (15) of the nozzle needle (5).

23. **(New)** The injection nozzle according to claim 13, further comprising
a push rod (40) drive-coupled the control piston (18) to the actuator (19),
the actuator (19) being embodied in the form of a hollow actuator through the center
of which the push rod (40) is guided,
at an end of the actuator (19) oriented away from the control piston (18), the push rod
(40) supporting a drive piston (39) that the actuator (19) is able to drive, and
the actuator (19) being embodied and positioned so that when it is triggered, it drives
the drive piston (39) in an opening direction (15) of the nozzle needle (5).

24. **(New)** The injection nozzle according to claim 14, further comprising
a push rod (40) drive-coupled the control piston (18) to the actuator (19),
the actuator (19) being embodied in the form of a hollow actuator through the center
of which the push rod (40) is guided,

at an end of the actuator (19) oriented away from the control piston (18), the push rod (40) supporting a drive piston (39) that the actuator (19) is able to drive, and
the actuator (19) being embodied and positioned so that when it is triggered, it drives the drive piston (39) in an opening direction (15) of the nozzle needle (5).

25. **(New)** The injection nozzle according to claim 15, further comprising

a push rod (40) drive-coupled the control piston (18) to the actuator (19),
the actuator (19) being embodied in the form of a hollow actuator through the center of which the push rod (40) is guided,

at an end of the actuator (19) oriented away from the control piston (18), the push rod (40) supporting a drive piston (39) that the actuator (19) is able to drive, and
the actuator (19) being embodied and positioned so that when it is triggered, it drives the drive piston (39) in an opening direction (15) of the nozzle needle (5).

26. **(New)** The injection nozzle according to claim 16, further comprising

a push rod (40) drive-coupled the control piston (18) to the actuator (19),
the actuator (19) being embodied in the form of a hollow actuator through the center of which the push rod (40) is guided,

at an end of the actuator (19) oriented away from the control piston (18), the push rod (40) supporting a drive piston (39) that the actuator (19) is able to drive, and
the actuator (19) being embodied and positioned so that when it is triggered, it drives the drive piston (39) in an opening direction (15) of the nozzle needle (5).

27. **(New)** The injection nozzle according to claim 17, further comprising

a push rod (40) drive-coupled the control piston (18) to the actuator (19),
the actuator (19) being embodied in the form of a hollow actuator through the center
of which the push rod (40) is guided,

at an end of the actuator (19) oriented away from the control piston (18), the push rod
(40) supporting a drive piston (39) that the actuator (19) is able to drive, and

the actuator (19) being embodied and positioned so that when it is triggered, it drives
the drive piston (39) in an opening direction (15) of the nozzle needle (5).

28. **(New)** The injection nozzle according to claim 18, further comprising

a push rod (40) drive-coupled the control piston (18) to the actuator (19),
the actuator (19) being embodied in the form of a hollow actuator through the center
of which the push rod (40) is guided,

at an end of the actuator (19) oriented away from the control piston (18), the push rod
(40) supporting a drive piston (39) that the actuator (19) is able to drive, and

the actuator (19) being embodied and positioned so that when it is triggered, it drives
the drive piston (39) in an opening direction (15) of the nozzle needle (5).

29. **(New)** The injection nozzle according to claim 19, further comprising

a push rod (40) drive-coupled the control piston (18) to the actuator (19),

the actuator (19) being embodied in the form of a hollow actuator through the center of which the push rod (40) is guided,

at an end of the actuator (19) oriented away from the control piston (18), the push rod (40) supporting a drive piston (39) that the actuator (19) is able to drive, and

the actuator (19) being embodied and positioned so that when it is triggered, it drives the drive piston (39) in an opening direction (15) of the nozzle needle (5).